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PROCEEDINGS

OF

THE ROYAL IRISH ACADEMY.

1837. No. 5.

May 8.

Rev. F. SADLEIR, D. D., F. T. C. D., Vice-President, in the Chair.

Rev. Thomas M'Neece, F. T. C. D., was elected member of the Academy.

Mr. Petrie read the continuation of his paper "On the Antiquities of Tara Hill."

Professor Lloyd read the following extract of a letter from Mr. Bache, President of Girard College, Philadelphia, relating to a comparison of the Magnetic Intensity in Philadelphia, Dublin, and Edinburgh:

"I availed myself of an opportunity afforded by Professor Forbes, to observe the horizontal magnetic intensity at Edinburgh, in a locality as far from the disturbing action of the trap rocks, on the north of the town, as was convenient. The place (Canaan Park) adjoins that in which Mr. Dunlop's observations were made. After correcting for rate of chronometer and temperature of needle, &c. I get for Edinburgh (Dublin being unity) 0.9592. The dip, as determined by observation of Professor Forbes, (and given in a recent paper on the diminution of magnetic intensity at different heights,) is 71° 47'. I applied a small correction for the diminished magnetic force of the needles, as deduced from observations of the previous year; this may not be precise, and may slightly change the number. The two needles gave respectively:

Bar.	Cylinder.	Diff.
.9576	.9607	.0031

"Taking your result for Dublin and London, and Captain Sabine's for London and Paris, I deduce for the ratio of Edinburgh and Paris, (the latter being unity) 0.8406,—which is nearly identical with the direct comparison made by Professor Forbes. It disagrees very materially with the result of Captain Hall, by whom Edinburgh and London were first compared; but as the locality of his observations was shown by Mr. Dunlop to have rendered them inaccurate, they cannot be said to make against these determinations. I have not yet had an opportunity to see how far Mr. Dunlop's correction would make the three sets coincide.

"My determinations give:

Philadelphia, . . .	1.0000
Dublin, ...	0.8300
Edinburgh, ...	0.7957

But, of course, the correction for the loss of magnetism by the needle, if not exact, would affect these results more than that for the two last named places."

DONATIONS.

Flora Batava, No. 109. By H. C. Van Hall. Presented by the Author.

A Copy of the Ordnance Survey of the County of Meath, in 55 sheets. Presented by Lieutenant-Colonel Colby.

On the Arenarius of Archimedes. By Stephen Peter Rigaud, M.A., Savilian Professor of Astronomy, Oxford. Presented by the Author.

Mean Heights of the Barometer and Thermometer, with the Fall of Rain, at the Observatory, Oxford, during each month of the years 1828 *to* 1836. Presented by the same.